BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLY ZONE

DIVISION: DASARAHALLY

SUB DIVISION: SHETTYHALLI

***Name of Work**: Estimate for* **Improvements to CC Roads and drains construction of RCC drain at Janata colony, Chikkasandra in Ward No 12 in Shettyhalli Sub Division**

JOB CODE: 012-17-000007

Estimated Cost: Rs. 50.00 Lakhs

Name of Work: Improvements to CC Roads and drains construction of RCC drain at Janata colony, Chikkasandra in Ward No 12 in Shettyhalli Sub Division

REPORT

Report accompanying the estimate for Improvements to CC Roads and drains construction of RCC drain at Janata colony, Chikkasandra in Ward No 12 in Shettyhalli Sub Division is prepared as per PWD SR for the year 2016-17of Bangalore Circle. The above work is sanctioned in **SFC Grant for the year 2016-17** in the Budget head **P -3111** for Rs **50.00 Lakhs** in ward No 12 Shettihally of Shettyhalli Sub Division and got the Job Code **012-17-000007**. There is no proper drain to the Chikkasandra Janata colony main road connecting 4th, 5th and 6th cross road and culverts. Hence the construction of RCC drain to Chikkasandra Janata colony main road and culverts to cross connecting roads is very essentials for dispose off the rain water in this road and surrounding area. Hence the construction of RCC drain and culverts were taken in this estimate with the following provisions as per the site conditions.

1) Earth work excavation for drain and culverts by manual means.
2) Earth work for Road work in all types of soils with hydraulic excavator.
3) Construction of granular sub base by providing coarse graded crushed stones.
4) Construction of dry lean cement concrete mix 1:5:10 with OPC cement.
5) Construction of un-reinforced plain cement concrete pavement.
6) Vaccum de-watering with vaccum pump and suction mat.
7) Providing and laying in Position plain cement concrete mix 1:4:8 for drain bed.
8) Providing and laying in Position plain reinforced cement concrete for side drain using M 20 for RCC drain
9) Providing T.M.T steel reinforcement for RCC work.

The total cost of the estimate worked out to Rs 50.00 Lakhs including KRIDL service Charges and QC charges with the above provisions as per the site conditions. Hence the estimate is submitted with a request to accord administrative and Technical sanction under SFC grant for the year 2016-17 in Budget head P 3111.

Assistant Engineer
Ward No -12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Improvements to CC Road & Drain **&** Construction of RCC Drain At Janatha Colony, Chikkasandra in Wrad No.12, Shettyhalli Sub Division.

Est .Cost Rs.50.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **P. No. 142/ It No. 19.1/ PWD SR 2016-17**								
	For RCC drain school road	Cum	1	310.00	1.20	1.10	409.20		
	Colony Road		2	85.00	1.20	1.00	204.00		
	Culverts		2	9.00	1.80	1.05	34.02		
	For road patch work		1	31.75	5.80	0.30	55.25		
							702.47	175.96	**123606.00**
2	KSSRB M400-7 **Construction of granular sub -base** by providing coarse graded cushed stone aggregates of granite / trap / basalt material speading in uniform layers with motor grader on prepared surface,mixing by mix in place method with rotavator at OMC,and compacting with vibratory roller to achive the desired density. complete asper specification. **By mix in place method for Grading II Material** KSSRB P.No 156 It. No 20.6 and 20.6.3 **PWD SR 2016-17**								
	cross sroad	Cum	1	31.75	5.80	0.15	27.62		
							27.62	1,582.58	**43715.00**
3	KSSRB M600-1 Construction Of **dry lean cement concrete mix CC1:5:10** With OPC cement @160kgs,with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum sub-base over a prepared sub-grade with (course and fine aggregate conferming to IS:383) aggregate cement ratio not to exceed 15:1. Aggregate gardation after blending to br as per Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be less than 10Mpa at 7days, mixxed in a batching plant, transported to site, laid with a paver with electronic sensor, comacting with 8-10 tonnes vibratory roller,finishing and curing complete asper Specification KSSRB:P. No 176, It. No 22.2 and 22.2.1 **PWD SR 2016-17**								
		Cum	1	31.75	5.80	0.15	27.62		
							27.62	3988.66	**110177.00**

4	**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement**, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in **approved fixed side form work** (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, **construction and longitudinal joints including groove cutting charges**, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - **M30 (at 360Kg per**									
		Cum	1	31.75	5.80	0.15	27.62		
							27.62	6217.96	**171755.60**
5	**Vaccum de-watering with vaccum pump** and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power floater, blade and disc etc., with all lad and lift **P. No. 177/ It. No. 22.7/ PWD SR 2016-17.**								
		Sqm	1	31.75	5.80		184.15		
							184.15	95.4	**17567.91**
6	KSRB 4-1.3 : **Providing and laying in position plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.3 **Page No.12/ Item No. 4.3/ PWD SR 2016-17**								
	For RCC drain	Cum	1	310.00	1.10	0.15	51.15		
	Colony Road		2	85.00	1.10	0.15	28.05		
	Culverts		2	9.00	1.80	0.15	4.86		
							84.06	5159.02	**433667.00**
7	KSRB 4.2.2 : **Providing and laying in position reinforced cement concrete of design mix M20** with OPC cement @ 320kgs, with with 20mm and down size graded granite metal, coarse aggregate @ 0.69 cum and fine aggregates @ .460cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafairmed -2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedastals,retaining walls, staircase, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete								
a	**Bottom Concrete**								
	For RCC drain	Cum	1	310.00	1.00	0.15	46.50		
	Colony Road		2	85.00	1.00	0.15	25.50		
b	**side wall**								
	For RCC drain	Cum	2	310.00	0.15	0.90	83.70		
	Colony Road		4	85.00	0.15	0.90	45.90		
c	Culverts **Bottem**		2	9.00	1.80	0.15	4.86		
	Culverts **Side wall**		4	9.00	0.35	0.90	11.34		
							217.80		
	Deck Slab		2	9.00	1.50	0.22	5.94		
							223.74	6371.66	**1425595.00**

8	KSRB 4.9.2: **Providing T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bars Fe 500. **Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17**								
	For Drain bottom	Tonne		190.49	x	60kgs	11429.10		
	For culvert deck slab			12.42	x	80kgs	993.60		
							12422.70		
							say		
							12.42	59413.00	738070.00
9	KSRB 4-6.9: **Providing and removing centering**, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walss at any thickness,including attached pilasters,buttresses, plinth and string courses cost of all materials, labour complete as per specification. Specification No. KSRB 4.6.9. exceeding 1m in depth. **Page No. 15/ Item No. 4.31/ PWD SR 2016-17**								
		Sqm	4	425.00	310.0	0.90	1530.00		
	For Culvert Wall		16	6.00	85.0	0.90	43.20		
	For Covering Slab Bottom		4	6.00	9.00	0.60	7.20		
			4	15.00		0.25	30.00		
							1610.40	310.58	500158.00
10	**Providing & laying reinforeced cement precast slabs** of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.								
		Sqm	2 1	425.00	310.0	0.90	382.50		
	Approved Rate of Precast slab	1600.00	2 1	85.00		0.90	382.50	1600.00	612000.00
11	**Sub Total**								4544989.19
12	**KRIDL Charges @ 9%**								409049.03
13	**Third Party Inspection Charges @ 1%**								45449.89
14	**Miscellaneous and unforeseen charges**								511.89
								Total	5000000.00

(Rupees Fifty Lakhs Only)

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2016-17

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

JC/D/PW/17-18 ದಿನಾಂಕ : 6/5/17
(50.00 Lakhs) Fifty Lakhs Rupees only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

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ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂಘಇಆ/56/17-18 ದಿನಾಂಕ : 01/06/2019
ರೂ. Rs. 50.00 Lakhs only
Rs. Fifty Lakhs only
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